

section 16.032, entitled “Method I—Official Final Action” under the heading “Total Solids.”

(vii) Titratable Acidity, variable—as determined by the methods prescribed in section 16.023, entitled “Acidity (2)—Official Final Action” under the heading “Milk,” or by an equivalent potentiometric method.

(2) Limits of impurities are:

Heavy metals (as lead). Not more than 10 parts per million (0.001 percent), as determined by the method described in the Food Chemicals Codex, 3d ed. (1981), pp. 512–513,<sup>2</sup> which is incorporated by reference.

(3) The reduced lactose whey shall be derived from milk that has been pasteurized, or the reduced lactose whey shall be subjected to pasteurization techniques or its equivalent before use in food.

(c) Reduced lactose whey may be used in food in accordance with good manufacturing practice as indicated in § 184.1(b)(1).

(d) The percent of lactose present on a dry product basis, i.e., “reduced lactose whey (\_\_\_% lactose)”, shall be declared on the label of the package sold to food manufacturers. The percent of lactose may be declared in 5-percent increments, expressed as a multiple of 5, not greater than the actual percentage of lactose in the product, or as a actual percentage provided that an analysis of the product on which the actual percentage is based is supplied to the food manufacturer.

(e) The presence of reduced lactose whey in a finished food product shall be listed as “reduced lactose whey.”

[46 FR 44440, Sept. 4, 1981, as amended at 54 FR 24899, June 12, 1989]

#### § 184.1979b Reduced minerals whey.

(a) Reduced minerals whey is the substance obtained by the removal of a portion of the minerals from whey. The dry product shall not contain more than 7 percent ash. Reduced minerals whey is produced by physical separa-

tion techniques such as precipitation, filtration, or dialysis. As with whey, reduced minerals whey can be used as a fluid, concentrate, or a dry product form. The acidity of reduced minerals whey may be adjusted by the addition of safe and suitable pH-adjusting ingredients.

(b) The reduced minerals whey meets the following specifications:

(1) The analysis of reduced minerals whey, on a dry product basis, based on analytical methods in the referenced sections of “Official Methods of Analysis of the Association of Official Analytical Chemists, 13th ed. (1980),<sup>1</sup> which is incorporated by reference, is:

(i) Protein content, 10 to 24 percent—as determined by the methods prescribed in section 16.036 (liquid sample), entitled “Total Nitrogen—Official Final Action” under the heading “Total Solids,” or in section 16.193 (dry sample), entitled “Kjeldahl Method” under the heading “Protein—Official Final Action.”

(ii) Fat content, 1 to 4 percent—as determined by the methods prescribed in section 16.059 (liquid sample), “Reese-Gottlieb Method [Reference Method] (11)—Official Final Action” under the heading “Fat,” or in section 16.199 (dry sample), entitled “Fat in Dried Milk (45)—Official Final Action.”

(iii) Ash content, maximum 7 percent—as determined by the methods prescribed in section 16.035 (liquid sample), entitled “Ash (5)—Official Final Action” under the heading “Total Solids,” or in section 16.196 (dry sample), entitled “Ash—Official Final Action” under the heading “Dried Milk, Nonfat Dry Milk, and Malted Milk.”

(iv) Lactose content, maximum 85 percent—as determined by the methods prescribed in section 16.057 (liquid sample), entitled “Gravimetric Method—Official Final Action” under the heading “Lactose,” or in section 31.061 (dry sample), entitled “Lane-Eynon General Volumetric Method” under the heading “Lactose—Chemical Methods—Official Final Action.”

<sup>2</sup>Copies may be obtained from the National Academy of Sciences, 2101 Constitution Ave. NW, Washington, DC 20037, or examined at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC 20408.

<sup>1</sup>Copies may be obtained from: Association of Official Analytical Chemists, 2200 Wilson Blvd., Suite 400, Arlington, VA 22201-3301, or examined at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC 20408.

(v) Moisture content, 1 to 6 percent—as determined by the methods prescribed in section 16.192, entitled “Moisture (41)—Official Final Action” under the heading “Dried Milk, Nonfat Dry Milk, and Malted Milk.”

(vi) Solids content, variable—as determined by the methods prescribed in section 16.032, entitled “Method I—Official Final Action” under the heading “Total Solid.”

(vii) Titratable Acidity, variable—as determined by the methods prescribed in section 16.023, entitled “Acidity (2)—Official Final Action” under the heading “Milk,” or by an equivalent potentiometric method.

(2) Limits of impurities are: Heavy metals (as lead). Not more than 10 parts per million (0.001 percent), as determined by the method described in the Food Chemicals Codex, 3d ed. (1981), pp. 512-513,<sup>2</sup> which is incorporated by reference.

(3) The reduced minerals whey shall be derived from milk that has been pasteurized, or the reduced minerals whey shall be subjected to pasteurization techniques or its equivalent before use in food.

(c) The reduced minerals whey may be used in food in accordance with good manufacturing practice as indicated in § 184.1(b)(1).

(d) The percent of minerals present on a dry product basis, i.e., “reduced minerals whey (\_\_\_% minerals)”, shall be declared on the label of the package sold to food manufacturers. The percent of minerals may be declared in 2-percent increments expressed as a multiple of 2, not greater than the actual percentage of minerals in the product, or as an actual percentage provided that an analysis of the product on which the actual percentage is based is supplied to the food manufacturer.

(e) The presence of reduced minerals whey in a finished food product shall be listed as “reduced minerals whey”.

[46 FR 44441, Sept. 4, 1981, as amended at 54 FR 24899, June 12, 1989]

#### § 184.1979c Whey protein concentrate.

(a) Whey protein concentrate is the substance obtained by the removal of sufficient nonprotein constituents from whey so that the finished dry product contains not less than 25 percent protein. Whey protein concentrate is produced by physical separation techniques such as precipitation, filtration, or dialysis. As with whey, whey protein concentrate can be used as a fluid, concentrate, or dry product form. The acidity of whey protein concentrate may be adjusted by the addition of safe and suitable pH-adjusting ingredients.

(b) The whey protein concentrate meets the following specifications:

(1) The analysis of whey protein concentrate, on a dry product basis, based on analytical methods in the referenced sections of “Official Methods of Analysis of the Association of Official Analytical Chemists,” 13th ed. (1980),<sup>1</sup> which is incorporated by reference, is:

(i) Protein content, minimum 25 percent—as determined by the methods prescribed in section 16.036 (liquid sample), entitled “Total Nitrogen—Officials Final Action” under the heading “Total Solids,” or in section 16.193 (dry sample), entitled “Kjeldahl Method” under the heading “Protein—Official Final Action.”

(ii) Fat content, 1 to 10 percent—as determined by the methods prescribed in section 16.059 (liquid sample), “Reese-Gottlieb Method [Reference Method] (11)—Official Final Action” under the heading “Fat,” or in section 16.199 (dry sample), entitled “Fat in Dried Milk (45)—Official Final Action.”

(iii) Ash content, 2 to 15 percent—as determined by the methods prescribed in section 16.035 (liquid sample), entitled “Ash (5)—Official Final Action” under the heading “Total Solids,” or in section 16.196 (dry sample), entitled “Ash—Official Final Action” under the heading “Dried Milk, Nonfat Dry Milk, and Malted Milk.”

<sup>2</sup>Copies may be obtained from the National Academy of Sciences, 2101 Constitution Ave. NW, Washington, DC 20037, or examined at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC 20408.

<sup>1</sup>Copies may be obtained from: Association of Official Analytical Chemists, 2200 Wilson Blvd., Suite 400, Arlington VA 22201-3301, or examined at the office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC 20408.